Bellwork

Alg 2B Monday, October 2, 2017

Use these functions:  $f(x) = x^2 + 3x - 5$ 

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$$g(w) = 3w^2 - 7w$$

1. Find g(2) then evaluate f(x) using this result.

2. Find g(-5k)

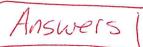
3. Find f(a-2)

- E(-1,-1)4. D(-6,3)
- F(-1,3)
- The coordinates of points D, E, and F in the xy-plane are given above. What is the perimeter of  $\triangle DEF$ ? B. 20 C.  $9 + \sqrt{17}$  D.  $9 + \sqrt{41}$  E.  $\sqrt{150}$

- 5. Committee A has 18 members and Committee B has 3 members. How many members from Committee A must switch to Committee B so that Committee A will have twice as many members as Committee B?
- A. 4
- B. 6
- C. 7
- D. 11
- E. 15

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Use these functions:  $f(x) = x^2 + 3x - 5$ 

$$g(w) = 3w^2 - 7w$$

1. Find g(2) then evaluate f(x) using this result.

$$g(2) = 3(2)^{2} - 7(2) = 3(4) - 7(2) = 12 - 14 = -2$$

$$f(-2) = (-2)^{2} + 3(-2) - 5 = 4 - 6 - 5 = -7$$

2. Find g(-5k)

$$g(-5k) = 3(-5k)^2 - 7(-5k)$$
$$= 3(25k^2) - 7(-5k)$$

3. Find f(a-2)

$$f(a-2) = (a-2)^2 + 3(a-2)^2 - 5$$

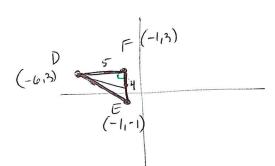
$$= a^2 - 4a + 4 + 3a - 6 - 5$$

$$f(a-2)^2 = a^2 - 9 - 7$$

$$f(a-2) = a^2 - q - 7$$

4. D(-6,3)E(-1,-1)F(-1,3)

The coordinates of points D, E, and F in the xy-plane are given above. What is the perimeter of  $\triangle DEF$ ? C.  $9 + \sqrt{17}$  D.  $9 + \sqrt{41}$  E.  $\sqrt{150}$ B. 20 A. 12



$$F' = 4^2 + 5$$

- 5. Committee A has 18 members and Committee B has 3 members. How many members from Committee A must switch to Committee B so that Committee A will have twice as many members as Committee B?
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